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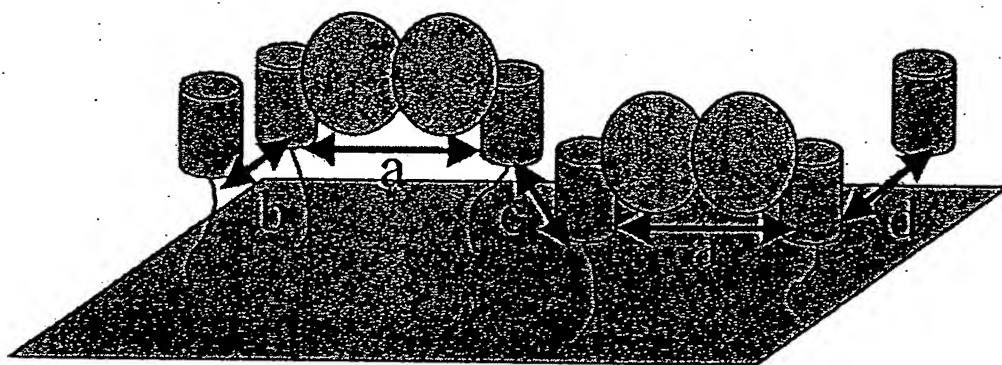
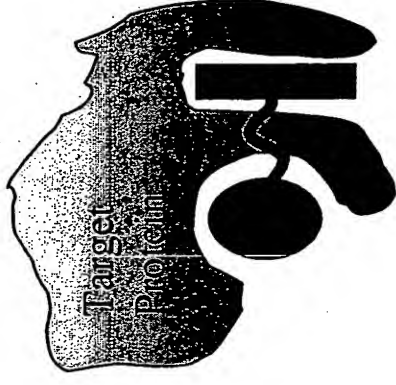


FIG. 1



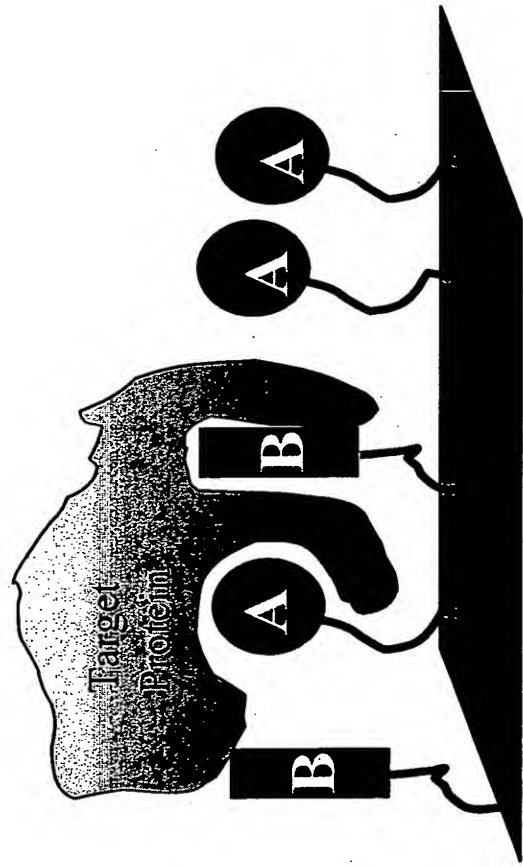
**Two low affinity
monovalent ligands**

Fesik, Ellman, others



**High affinity
bivalent ligand**

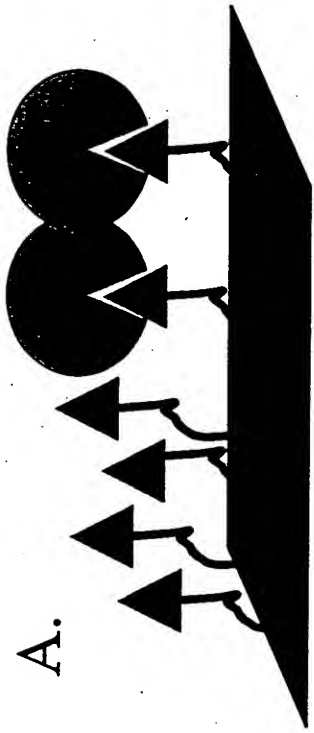
FIG. 2



**Bivalent association linked
by the surface**

FIG. 3

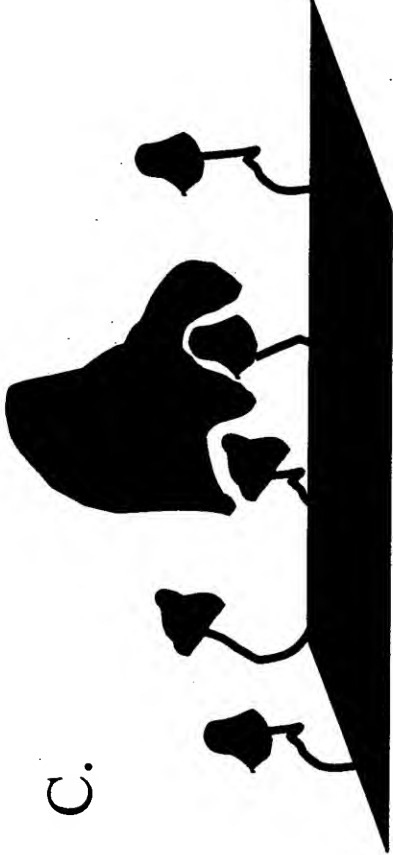
A.



B.



C.



D.

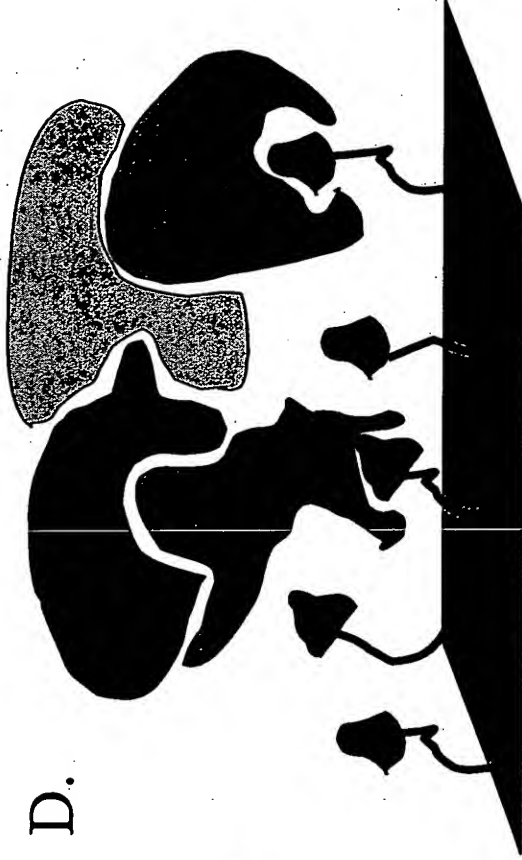
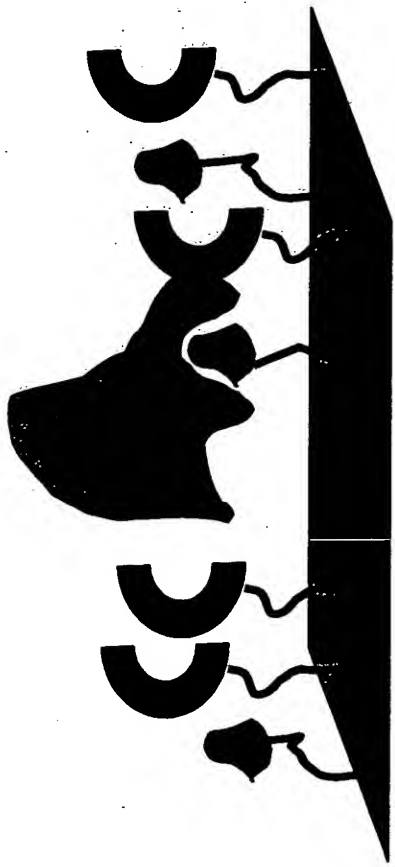


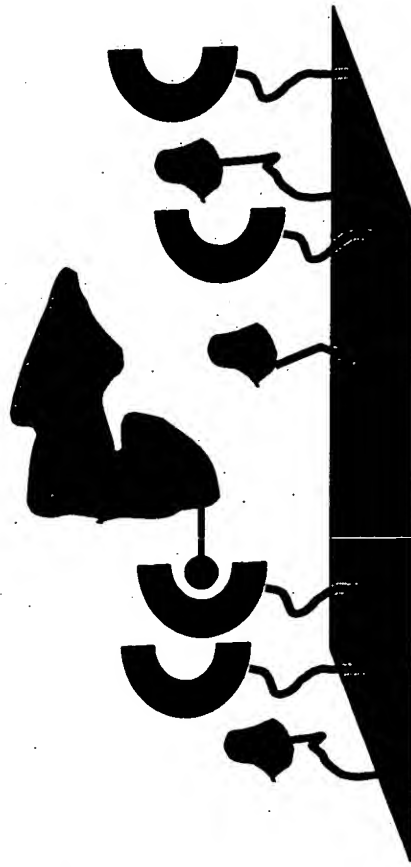
FIG. 4



High affinity binding of a particular post-translationally modified protein through a two-point contact.



The same protein lacking the modification would be bound weakly via a one-point contact.



Other proteins containing the same modification would be bound weakly via a one-point contact

FIG. 5

G80BP-A: YDQDMQNNTFDDLFWKEGHR
 G80BP-B: NEDWERDDQNPPWDLWMNRA
 GAL4 AD: MDQTAYNAGITTGMENTTMDDVYNYLFDEEDT

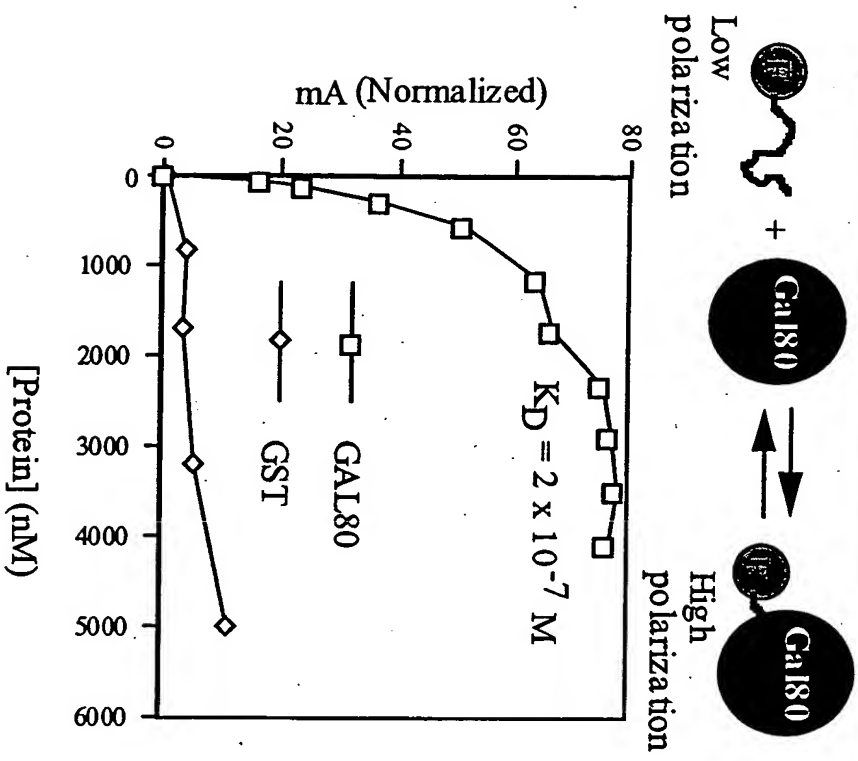


FIG. 6A

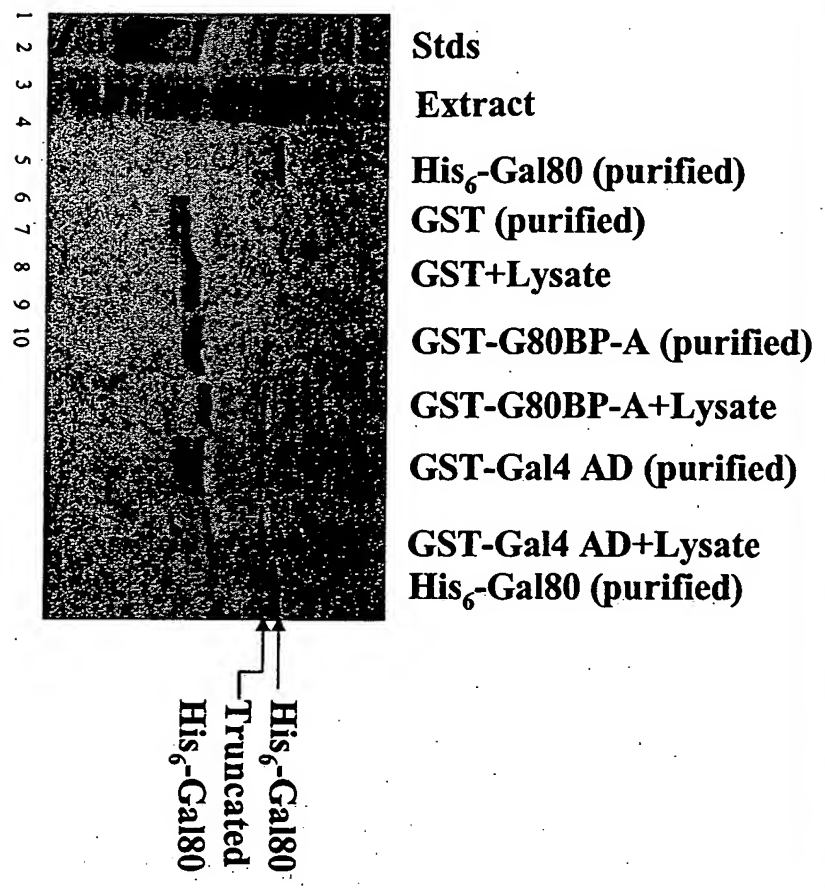
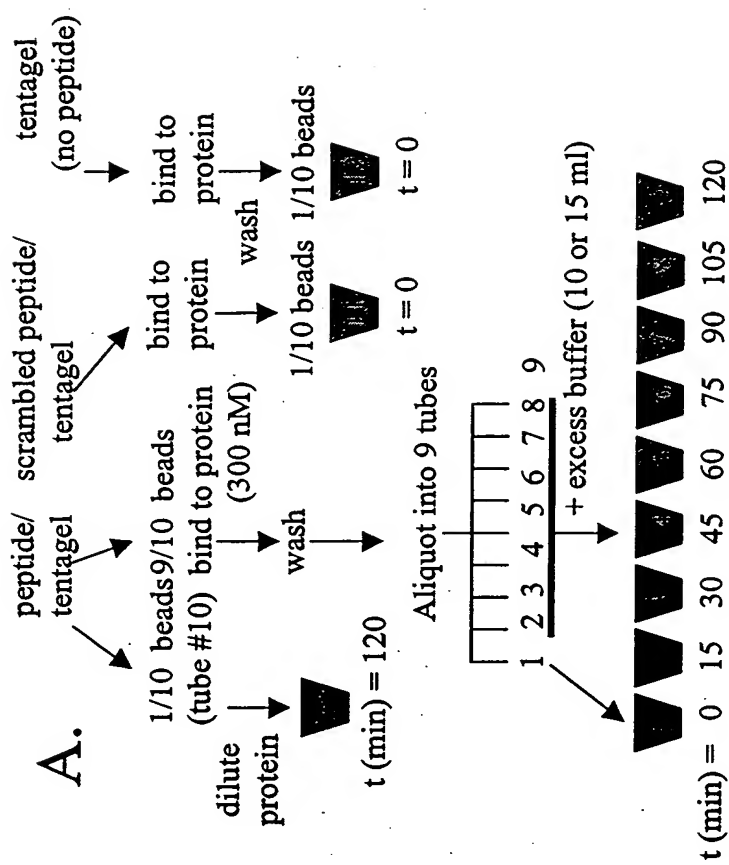


FIG. 6B



Quantitate Bead-Bound Protein By
SDS-PAGE/Western Blot

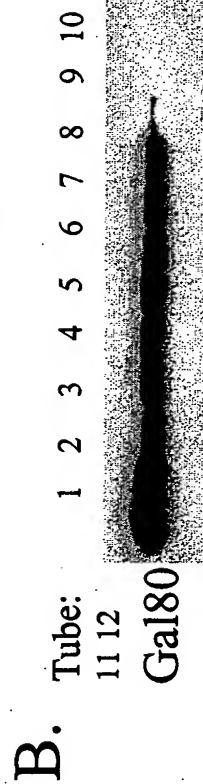


FIG. 7

A. [His6Gal80] (nM): 8 4 2 1.5 1 0.75 0.4 0.3 0.2
 His6Gal80 (ng): 200 100 50 37.5 25 17.5 10 7.5 5



B.

His6Gal80 (ng) 84 63 42 30 21 15 10 5



FIG. 8

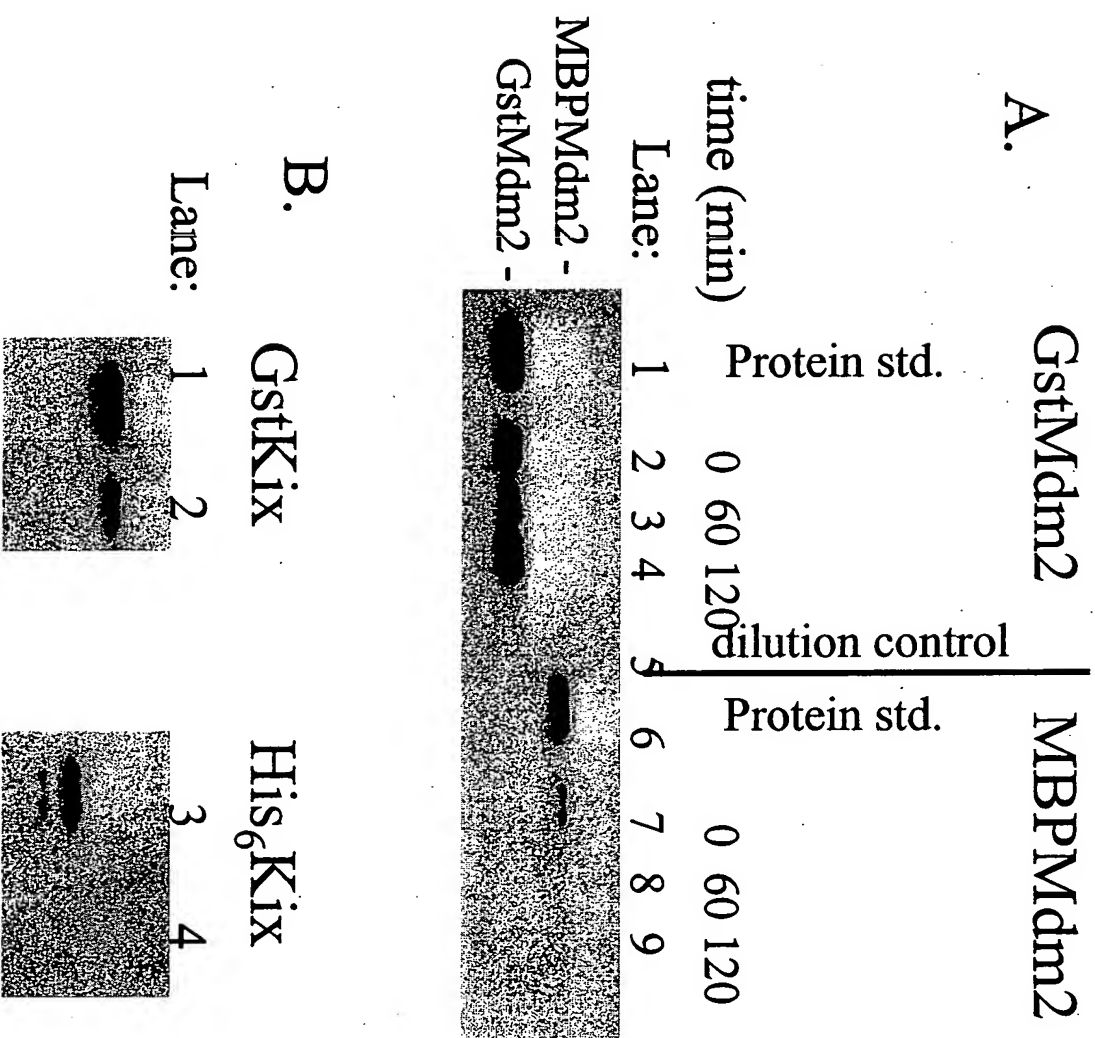


FIG. 9

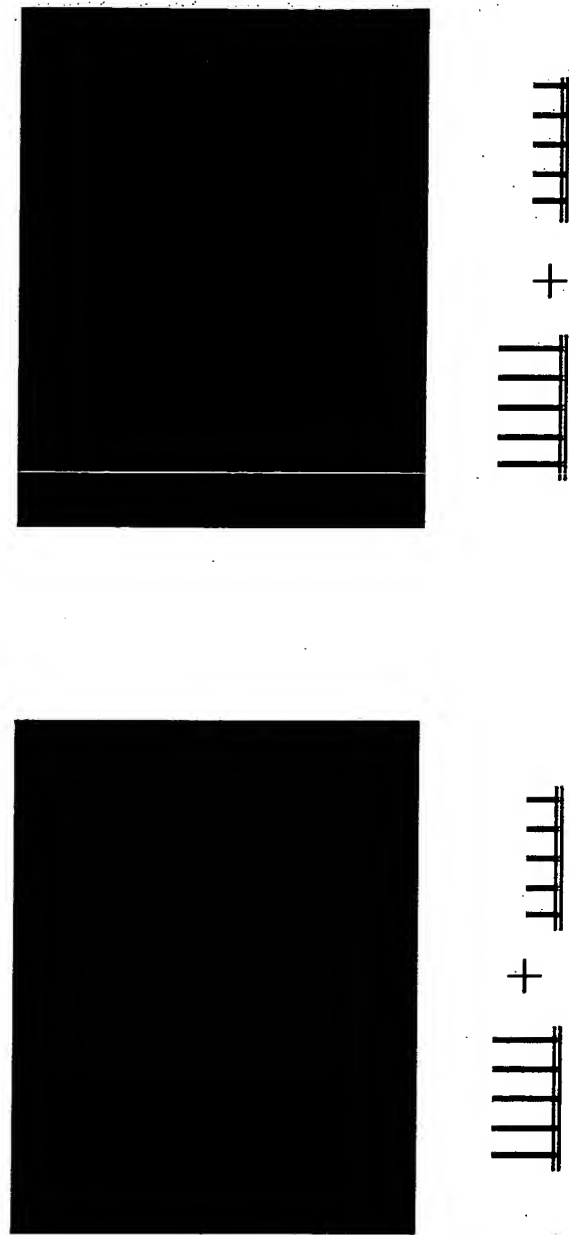
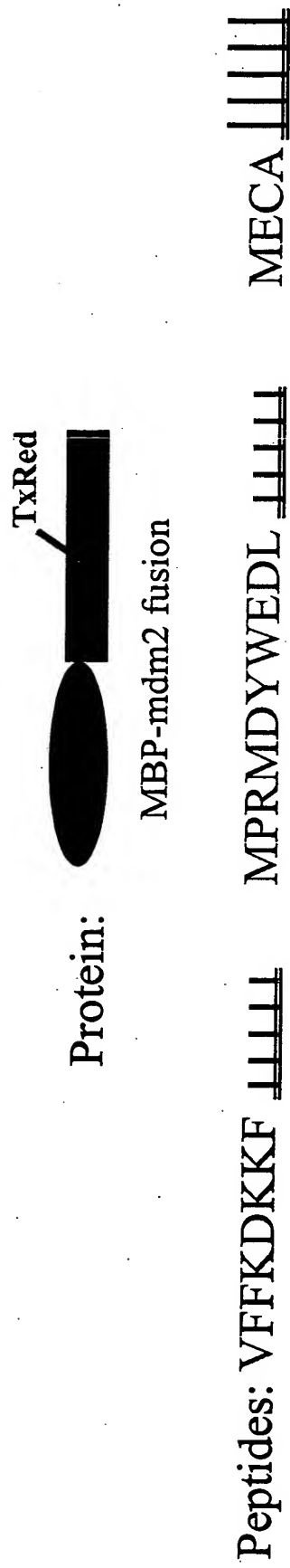


FIG. 10

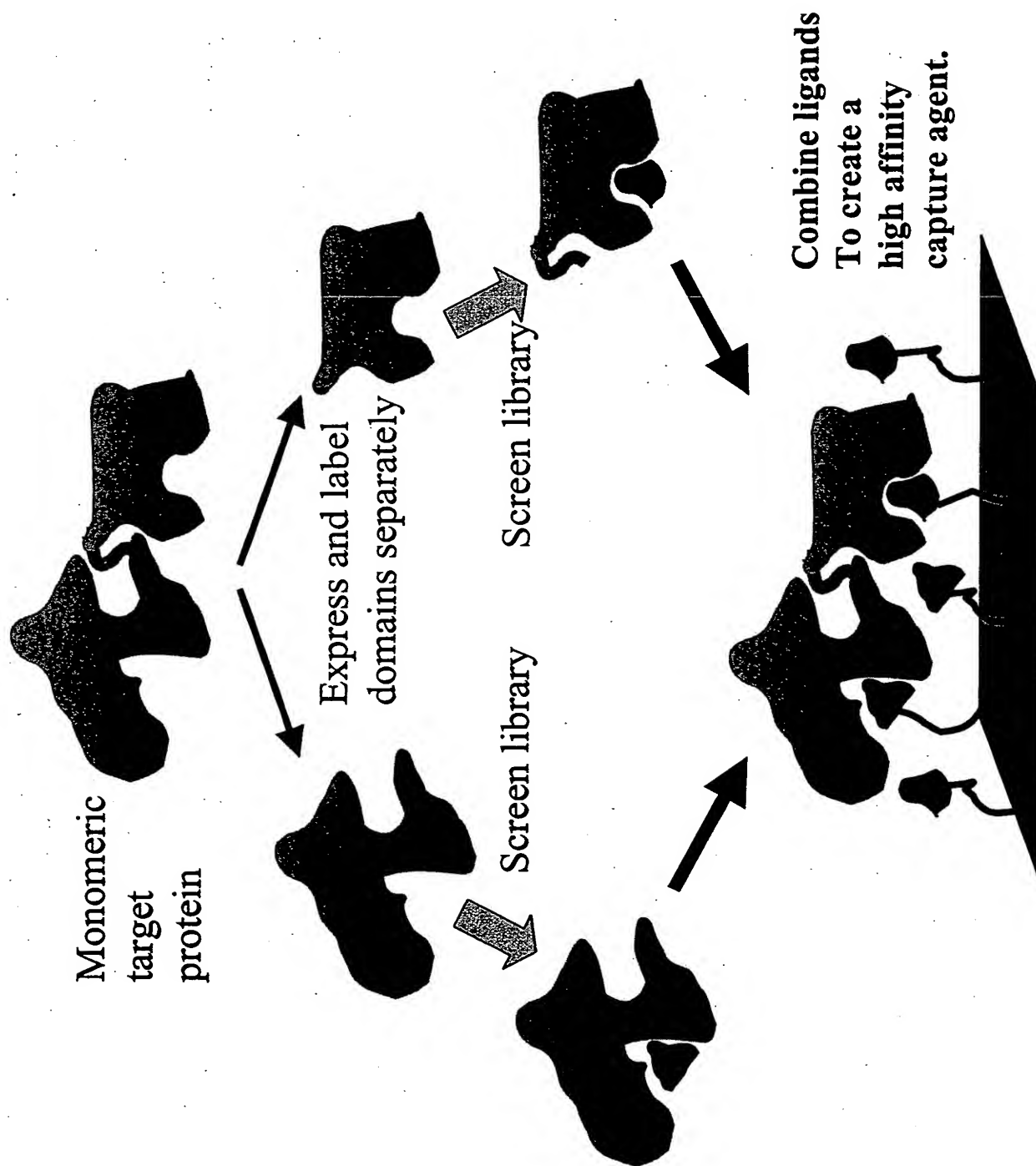


FIG. 11

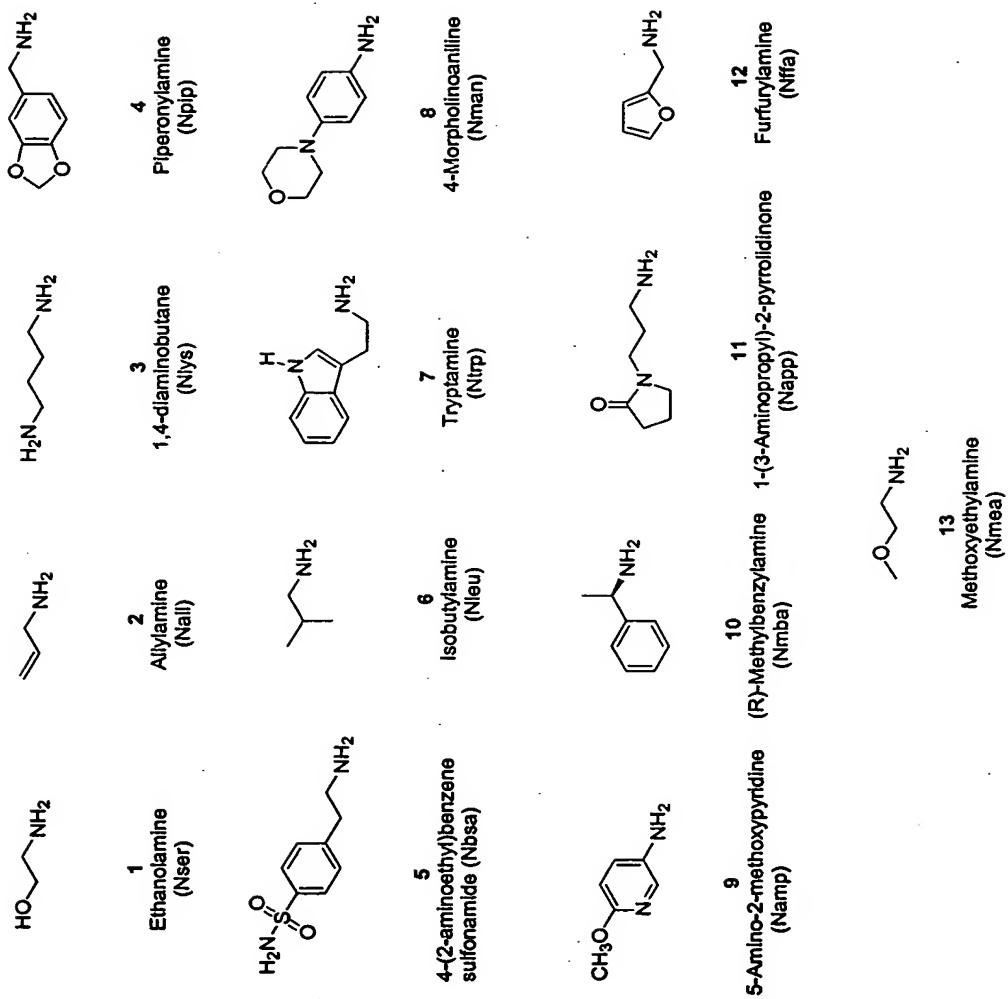


FIG. 12

- (1) Npip-Npip-Nbsa-Nser-Nlys-Npip-Nbsa-Nlys
- (2) Nbsa-Npip-Nlys-Nser-Nbsa-Nser-Nbsa-Npip
- (3) Nbsa-Nlys-Npip-Nser-Nbsa-Nser-Nall-Nlys
- (4) Nbsa-Nbsa-Nall-Nser-Nall-Npip-Nall-Npip
- (5) Nall-Nall-Nbsa-Nser-Nlys-Nbsa-Nser-Nall
- (6) Nlys-Nlys-Nser-Nser-Npip-Nall-Nbsa-Nser
- (7) Nlys-Nlys-Nser-Nser-Npip-Nbsa-Nall-Nbsa
- (8) Nall-Nlys-Nser-Nser-Nbsa-Nser-Nlys-Nlys
- (9) Npip-Nlys-Nall-Nser-Nbsa-Nser-Nbsa-Nall
- (10) Nbsa-Nlys-Npip-Nser-Nbsa-Nser-Nall-Nlys

FIG. 13

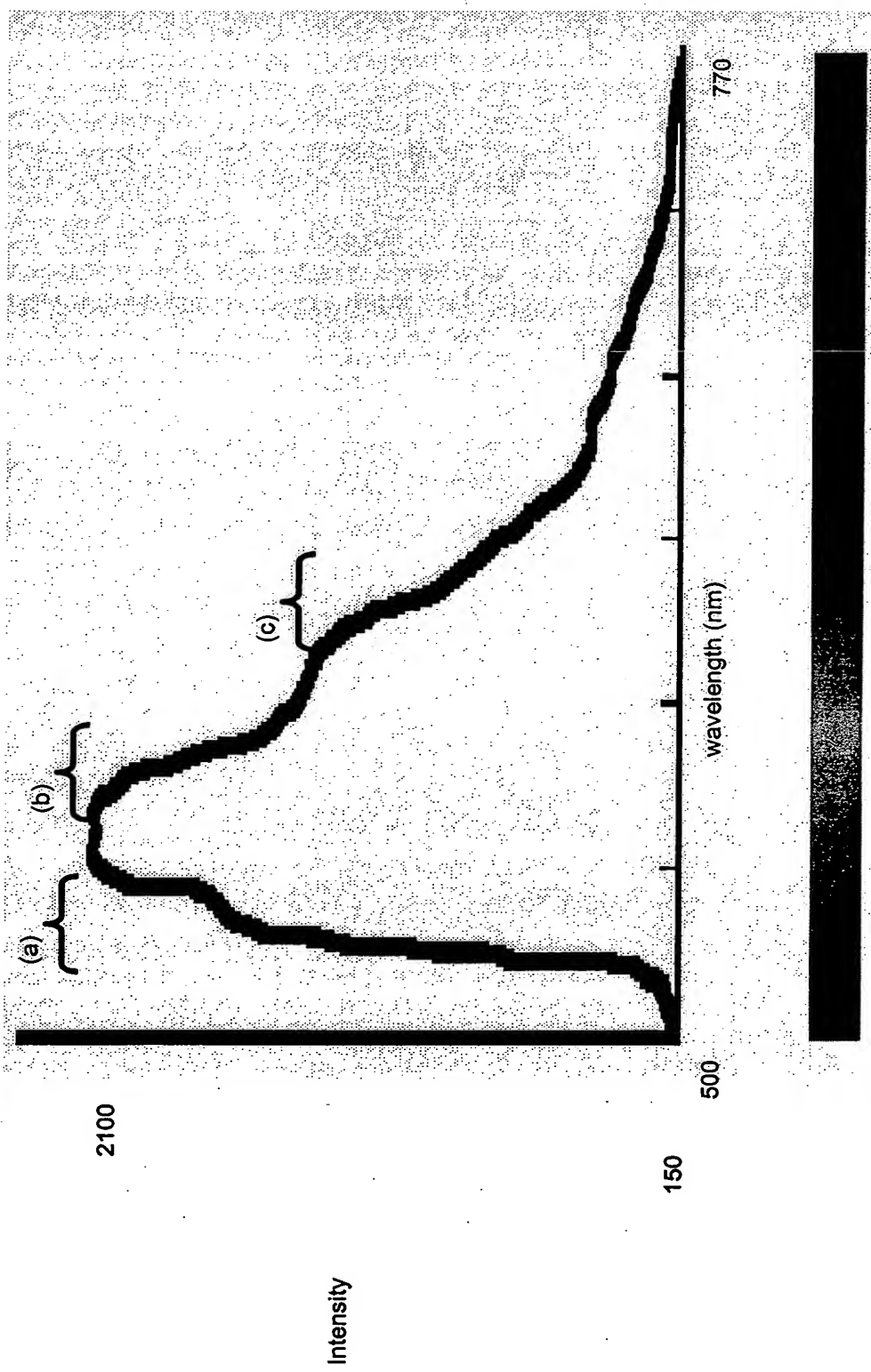
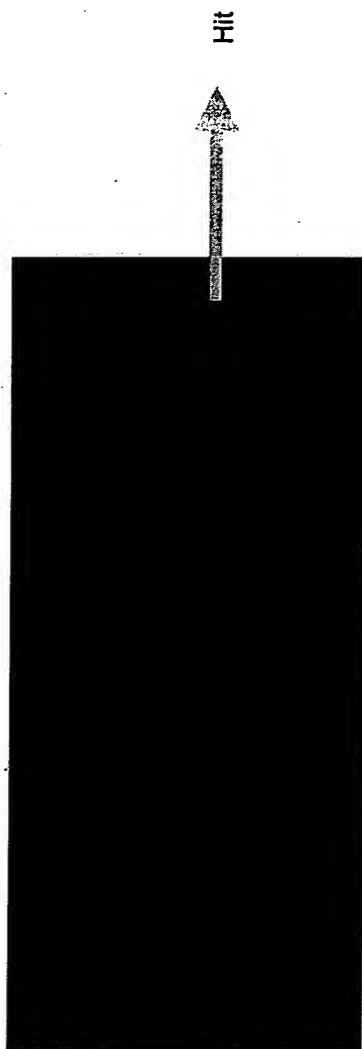
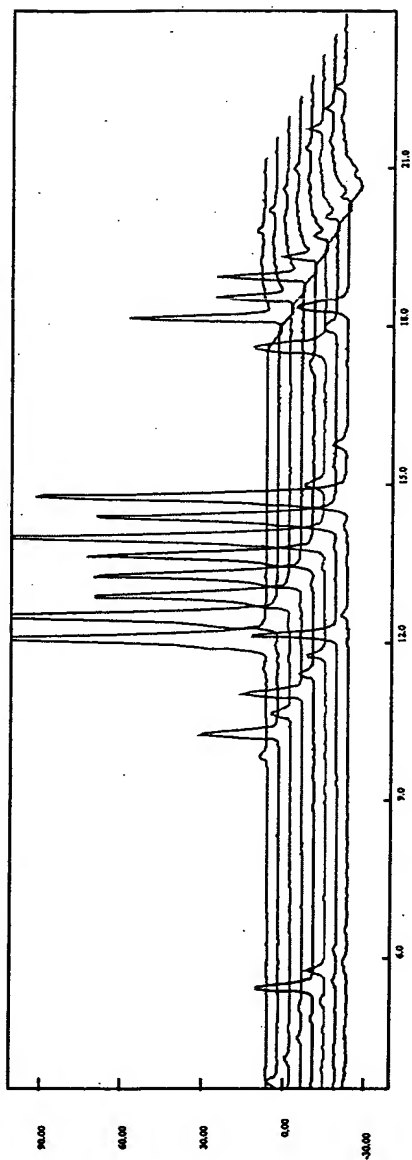


FIG. 14

(A)



(B)



(C)

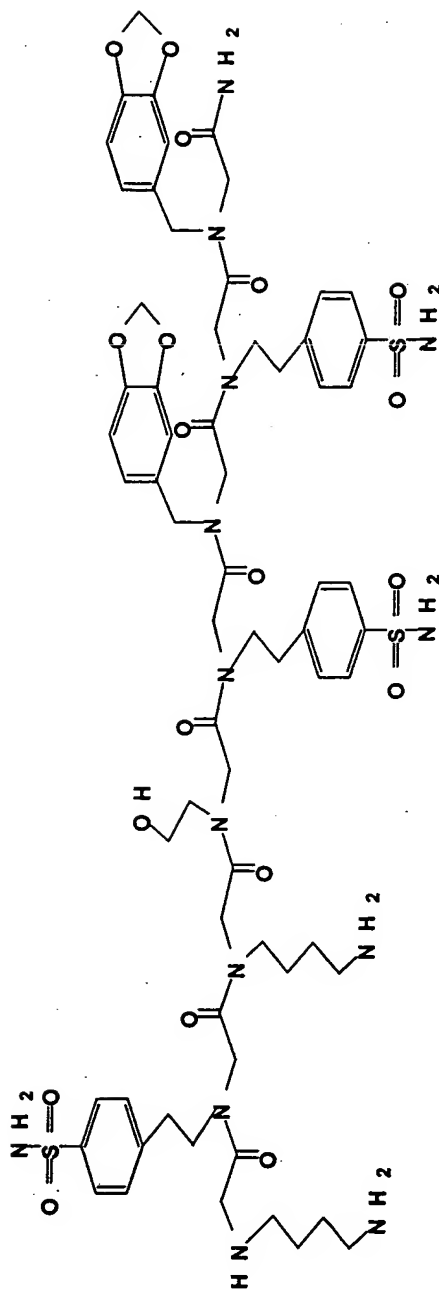


FIG. 15

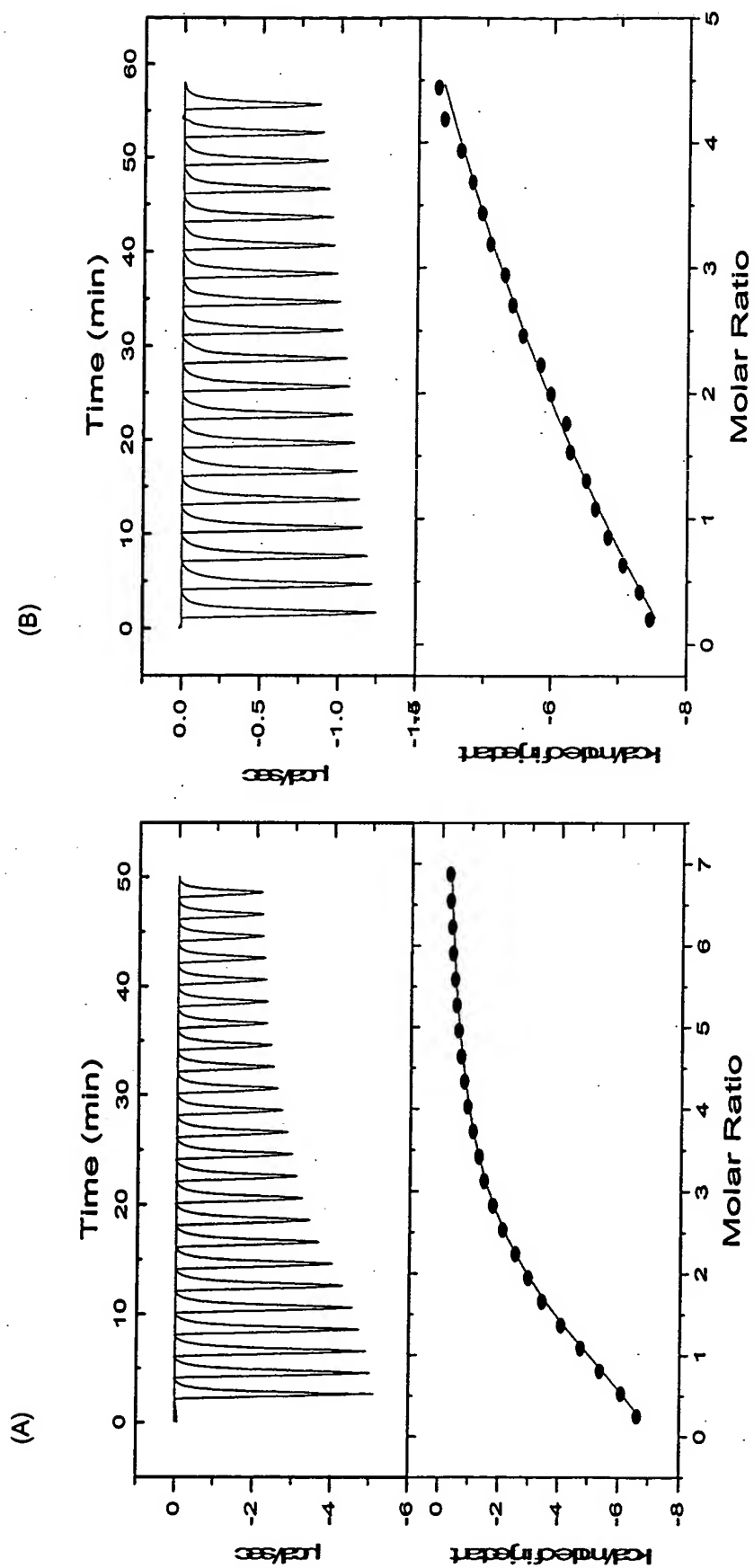


FIG. 16

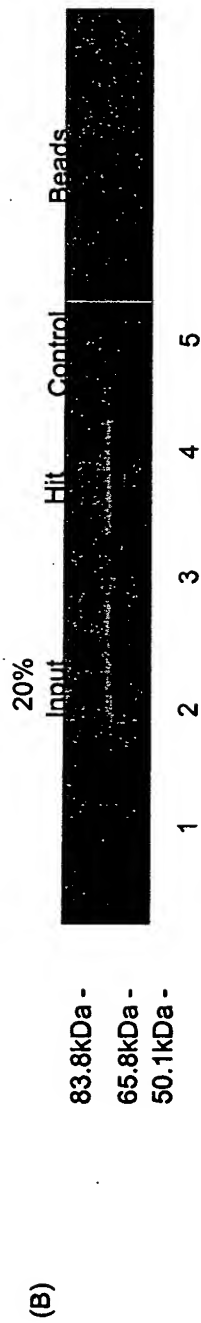
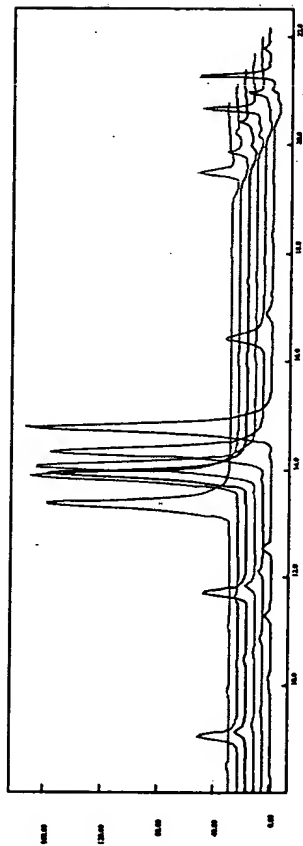


FIG. 17

• Nleu-Nbsa-Nlys-Napp-Ntrp-Nleu
 • Nmba-Nleu-Napp-Nmba-Nbsa-Nffa
 • Nlys-Nmea-Ntrp-Napp-Nleu-Nleu
 • Nmea-Npip-Nmba-Nffa-Napp-Nleu
 • Nleu-Nlys-Nmea-Nleu-Ntrp-Nmea
 • Ntrp-Nffa-Ntrp-Nbsa-Napp-Npip
 • Nffa-Nleu-Nmea-Npip-Nlys-Nleu
 • Npip-Nmea-Nmba-Napp-Nleu-Napp
 • Napp-Nmea-Nmba-Npip-Nffa-Nffa
 • Nleu-Npip-Nbsa-Nmea-Nmba-Nmea

(A)

(B)



(C)

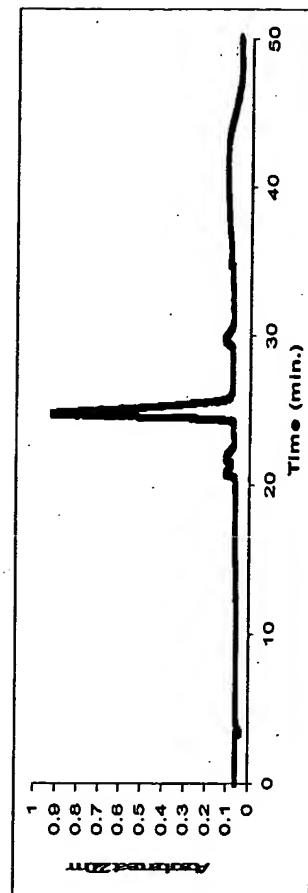
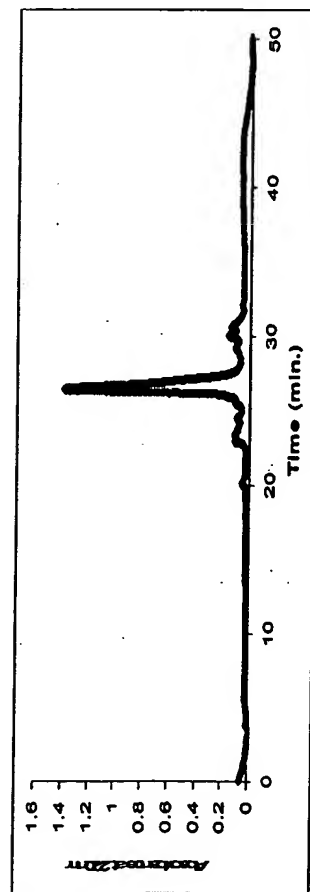


FIG. 18

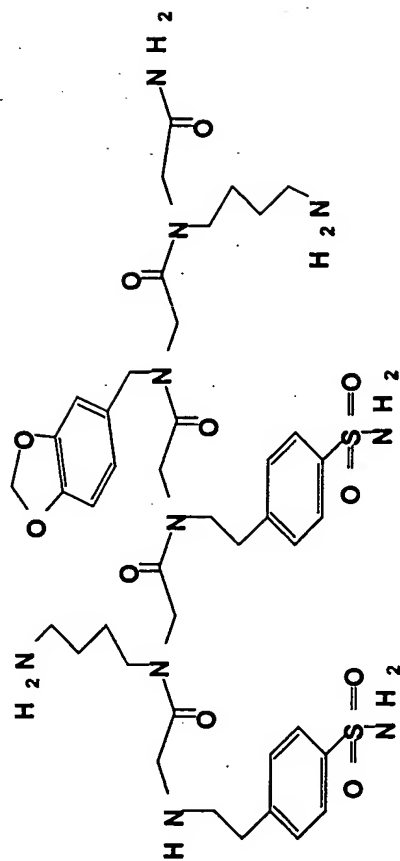
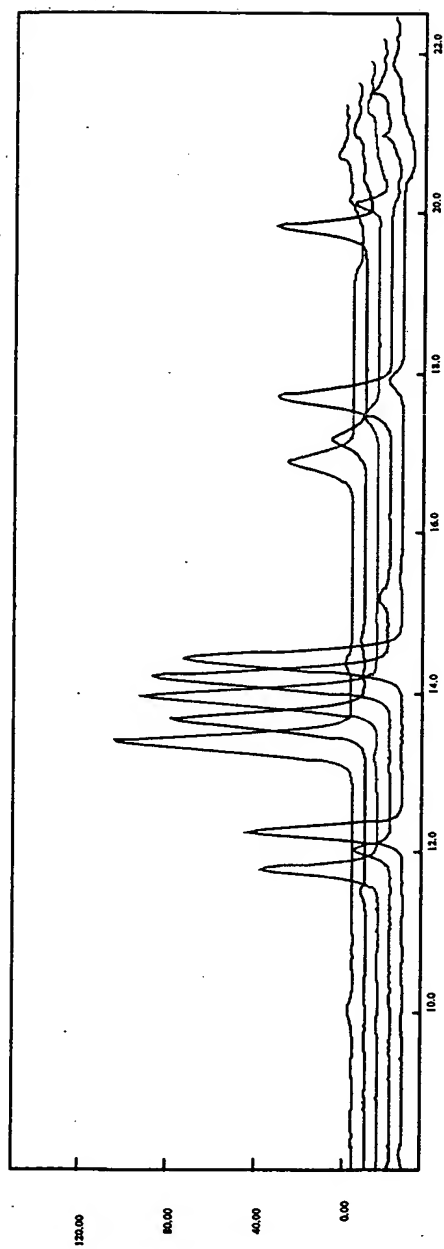


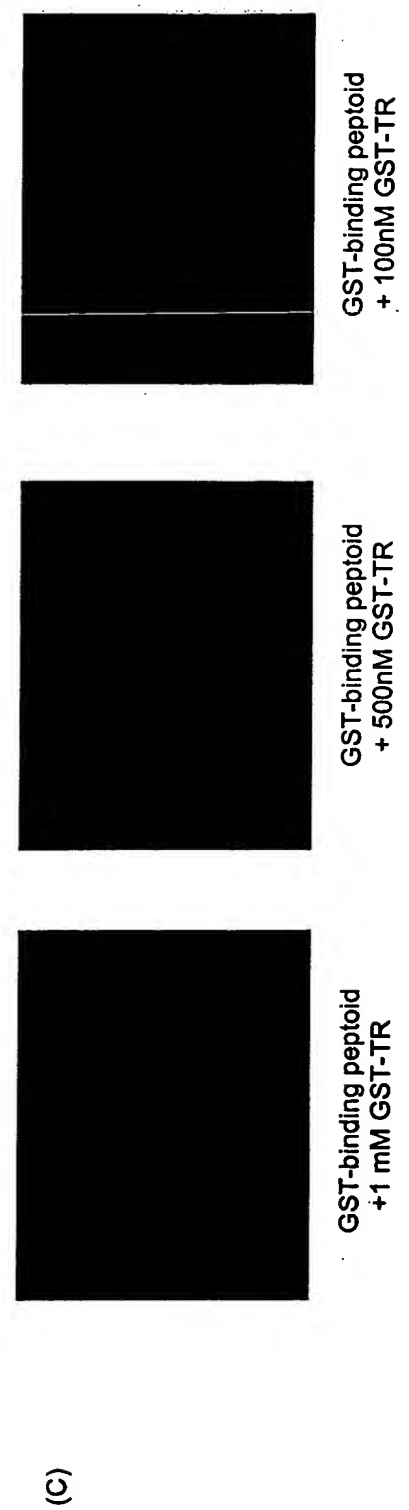
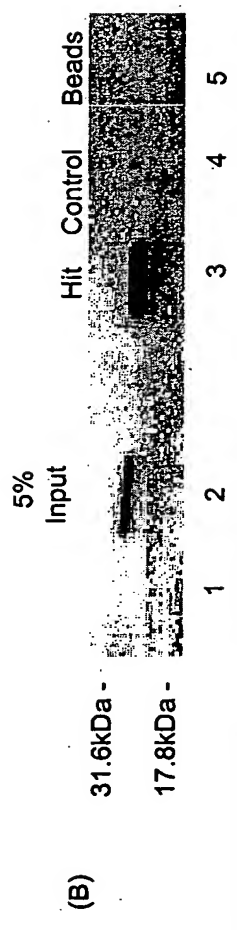
FIG. 19



GST-binding peptoid +
GST-TR

GST-binding peptoid +
MBP-TR

Random peptoid +
GST-TR

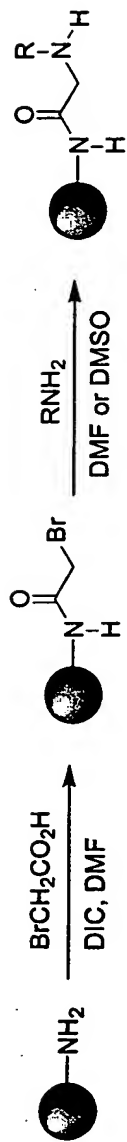


GST-binding peptoid
+1 mM GST-TR

GST-binding peptoid
+ 500nM GST-TR

GST-binding peptoid
+ 100nM GST-TR

FIG. 20



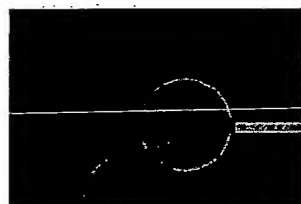
DIC : $(\text{Pr})\text{N}=\text{C}=\text{N}(\text{Pr})$

R : any alkyl group

FIG. 21

FIG. 23A

- 70,000 beads
↓ Pre-sort
- 64,000 beads
↓ MBP-Mdm2-F1
+ E. coli lysate



Hit

↓ Edman Sequencing

FIG. 23B

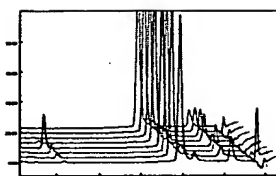
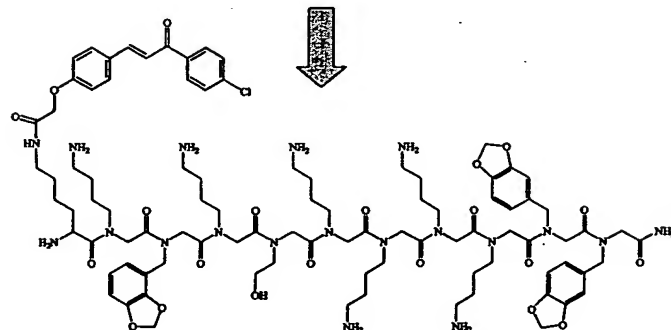


FIG. 23C



2

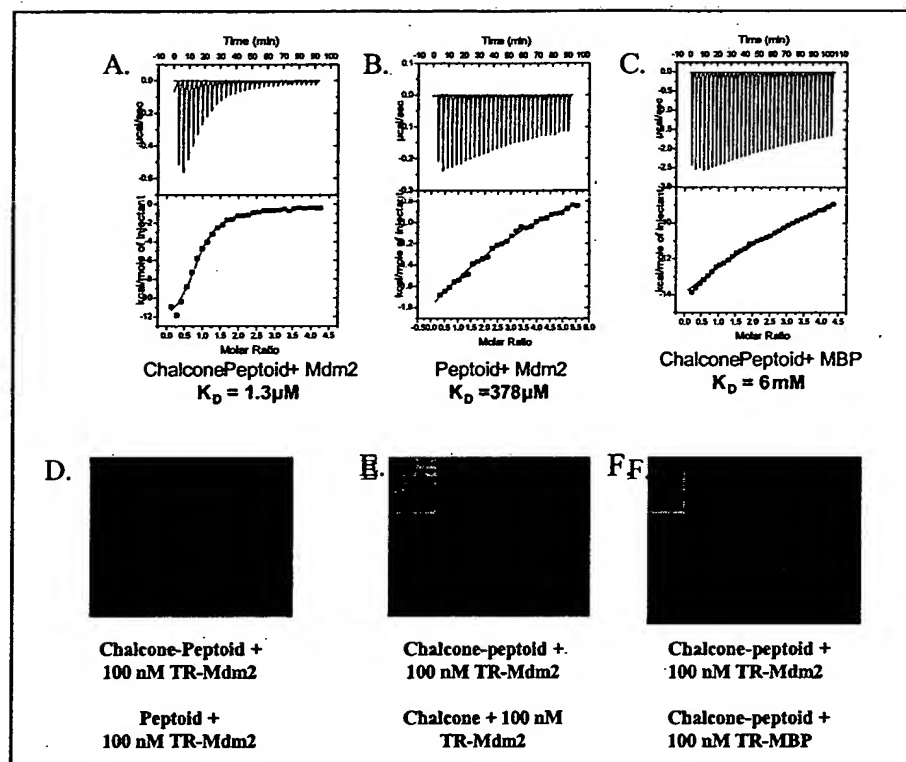


FIG. 24A-24F

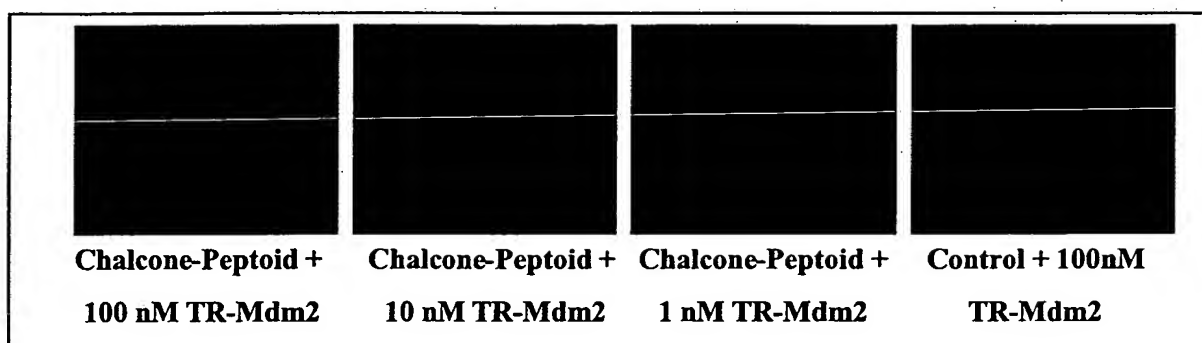


FIG 25

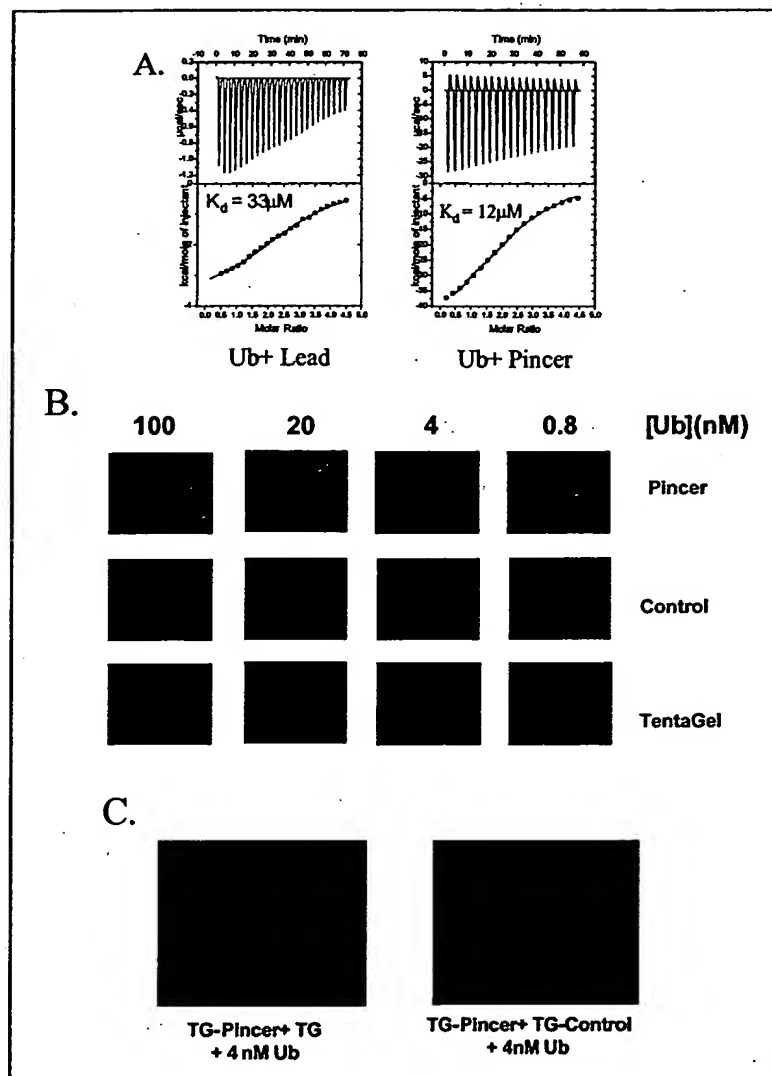


FIG. 26A-26C